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# FOLIO

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## The Dilemma of Library Acquisition Costs

*The following article has been condensed from an article which appeared in the December 1979 University of Alberta Library Bulletin.*

During the past several years the Library has felt obliged to report to the faculty and University staff the existence of problems in the financing of library material purchases. The use of the term "crisis" to characterize these problems, together with the steps which the GFC Library Committee, the Library and teaching departments have been forced to take in order to alleviate the situation, has led to the impression that the Library has been coping with a series of momentary, isolated disturbances, which in the long run would yield to appropriate corrective action. It is now clear that we are not coping with temporary disconnected events, nor is corrective action easily applied or necessarily even available.

More specifically, there appears to be a conflict between departments which wish to buy more periodicals, as against those which wish to buy more books; in other words, a "serials versus books" controversy.

From 1969/70 to 1978/79, the annual cost of periodical subscriptions rose from \$269,000 to \$888,000, a percentage rise of 230%. And yet during this period, by selective cancellation projects and the application of judicious restraint in the ordering of new subscriptions, the total number of journal titles subscribed to has remained approx-



imately constant, at about 15,000. The increased cost is therefore explained almost exclusively by price increases arising from the combined effects of inflation, Canadian currency depreciation, and price increases from other sources. During the same period, the cost of books and other library materials has also increased, and for the same reasons, but not at quite the same rate.

During the same period, the amount of money provided annually from University operating funds in order to support library

acquisitions has remained essentially unchanged. This annual appropriation from operating funds is commonly known as the "base budget" and is the only available source of funding for standing commitments (or commitments without term) such as periodical subscriptions, serial standing orders, and the like. The percentage of the base budget consumed by these standing commitments has risen since 1969/70 from 13% to 80% in 1979/80.

Given that the base budget has not significantly increased during

this period, it is clear that a massive shift of funding from books to serials has occurred. In view of the diversity of academic programs which the Library is obliged to support, 15,000 journal titles is probably an inadequate number, even assuming the most careful selection and pruning which has indeed been carried out throughout the years. Publication in journal form continues to increase on a worldwide basis, and essential new journals are constantly being issued at a rate which is two times the rate of cessation of older titles.

For some fields the journal is of relatively greater importance for the dissemination of the immediate results of research, and for others the opposite appears to be the case. However, in all fields the book remains the basic vehicle for the presentation of the definitive and comprehensive treatment of a major subject, and also for elementary and graduated surveys of subject areas which are indispensable for the edification of students and others seeking an introduction to a field of study. Furthermore, in many fields in both the sciences and humanities, the pressing research need is for classical works published in book form centuries ago, a need which has been only partially offset by modern republication and reprinting.

The Library's acquisitions programs have failed to keep up either with journal and serial needs or bookform needs. Nor can anything be helpfully accomplished by shifting more of the available funds into serials

or more into books. However, the inertia of the situation will certainly result in the shifting of the total base budget to serials in the next year or two, if inflation continues at a similar rate as at present.

That the inflationary rate is so formidable for library materials is a puzzle to many, even in this era of rapidly rising costs in all other aspects of economic life. Cost increases in the publishing industry, on a worldwide basis, have been much higher than rates of increase as reflected by consumer price indexes and other indexes of general inflation rates. While this is a complicated problem in itself, it will suffice in this brief outline to note that governments and private foundations have ceased to subsidize, directly or indirectly, scholarly publications on the scale at which this was formerly done. The publishing industry, being an intellectual and labor-intensive enterprise, scarcely amenable to mechanization, cannot increase its productivity at a rate comparable to other industrial sectors. This accounts for special cost increases peculiar to the preparation of scholarly publications which far outstrip the general



inflation rates. With these price rises fewer institutions and individuals are able to maintain subscriptions, thereby resulting in reduced revenue for the publisher and thereby, in a vicious circle, provoking still more price increases for the remaining subscribers in a dwindling market. We must still add to these effects that of the status of the Canadian dollar in international currency exchange. That this is an important problem is demonstrated by the fact that upwards of 90% of all the material the Library must acquire is published outside Canada, and hence involves, directly or indirectly, the purchase of foreign currencies with Canadian dollars. Among the major currencies in which the Library must purchase materials, appreciation since 1973 against the Canadian dollar has been as follows:

Swiss franc:	137%
German mark:	51%
French franc:	20%
Dutch guilder:	65%
US dollar:	25.5%

The Library's base budget which has been maintained at approximately a constant level for many years, does not permit the Library to maintain even a minimally adequate coverage of new publications in the form of books and journals. In fact, with sole reliance on these funds, the Library's support of the University's programs would long before now have become a fiasco. That a total breakdown has not quite

yet occurred arises from the fact that the Library has been temporarily saved by sporadic outside funding. Some years ago the base budget was supplemented by the MacCosham bequest and its associated match grant, thus postponing the moment when truly disastrous cutbacks would have been necessary in both journals and books. Just when this fund disappeared, the Heritage Trust funding for library acquisitions was announced, thus deferring the problem for perhaps another three years.

Unfortunately, while special outside funding allows a respite from disaster, its short-term and or uncertain duration does not permit effective planning in the sense that library acquisitions programs for all types of materials and in all subject areas can be rationally and systematically organized. It must be remembered that the development of useful acquisitions programs of a major scale requires not days and months but years to establish. Complex relationships and details of responsibilities must be worked out between library staff, library supporting operations, vendors, book suppliers, and participating faculty members. In the meantime, the presence of short-term "soft" money means that no drastic action must be taken with respect to the fact that the Library's standing commitments (journals, serials, etc.) are consuming all or most of the

operating budget. It also means that in the year when the soft money finally disappears without replacement, the Library will be confronted with bills for which there are no funds to pay. The Library will be convulsed by a massive, unplanned cancellation project of such a magnitude that not only will most University programs be irreparably damaged from loss of essential journals, but also the operational requirements of such a large-scale reduction, effected suddenly, will mean that virtually all other library activities and services will be disrupted for an indefinite period of time. While it exists, the temporary special grant presents an artificial surplus of funds because there is no mechanism for efficiently using them. It cannot be overemphasized that it takes years just to prepare the groundwork for a major acquisitions program in a subject area, given that effective collection development must be a long-term, labor-intensive task of persistent market searching and careful selection. By the same token, the elimination of programs requires similar long-term planning and systematic, careful implementation. Therefore, the presence of special funding with a short-term expiry means that the money can hardly be spent in ways which are maximally constructive and supportive of subject areas of greatest need. The funds will get spent on projects which, usually from factors unrelated to priority needs, happen to be able to absorb the money quickly.

The only rational solution is to provide a base budget or operating budget which is assured to increase year by year at a rate commensurate with the increases in costs of library materials. This is the only basis for the planning of useful collections and the constructive deployment of available funds and the University's human resources. However, since this solution is not available, the cooperation of the whole University community is essential in our desperate struggle to cope with these chaotic and uncertain times. □

## FOLIO

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All inquiries and correspondence should be directed to:

Folio  
Office of Community Relations  
423 Athabasca Hall  
University of Alberta  
Edmonton, Alberta T6G 2E8  
Telephone: (403) 432-2325

The Office of Community Relations produces Folio on a weekly basis for the staff and other interested persons

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# Activities of the Office of Institutional Research and Planning

The 25 January 1979 *Folio* published an overview of the purposes, functioning, and projects of the Office of Institutional Research and Planning (IRP). This article, supplied by IRP, provides additional information concerning some recent IRP projects. More detailed descriptions of individual projects, such as the Alumni Survey (see *Folio/New Trail*, June 1979), will be published when appropriate.

## 1. Development of IRP Academic Data Base

Following considerable discussion and consultation, and in accordance with directions given by the Board of Governors and GFC, IRP has been heavily involved in developing an Academic Data Base. This will provide University administrators with more detailed information about the operation of Faculties and departments than has been available previously. Chairmen and Deans have provided information under these headings—unit activities and priorities; research, scholarly and creative activities; community involvement; administrative responsibilities; organizational structure; and staff. IRP, with the assistance of several other University offices, prepared a considerable amount of data about the Faculties and departments. Units were asked to verify and update these data.

Because academic operations of the University are exceedingly diverse, development of methodologies to gather data and to assess such operations has been difficult, and improved instruments will necessarily evolve with additional experience. The present intention is to update this Academic Data Base periodically, possibly on an annual basis. Both the methodologies and the data gathered will be revised as suggestions are received from Deans and Chairmen and elements of this Academic Data Base are carefully examined and assessed.

Many questions have been

raised about uses of the information. The most obvious uses are for self-assessment, budget decisions and as background data for the reviews of academic programs which probably will be initiated in 1980. (See *Folio* article by Dr. Baldwin of 1 November 1979.)

## 2. Continuing Projects

A number of IRP projects, including the *Data Book*, Section Size Analysis, Space Inventory, Space Utilization, Analysis of Instructional Workload, Historical Enrolments, and Enrolment Projections for the coming years, continue from year to year with various degrees of modification. Several graphs and The University of Alberta Organizational Chart were included in the *Data Book* for the first time in the 1978-79 edition. This year an Advisory Committee consisting of several people who receive the *Data Book* will be established to assist IRP in this process of improvement.

Canadian universities are currently faced with the prospect of stable or declining enrolments over the next several years. As a result it is becoming increasingly important for universities to prepare accurate enrolment projections and space utilization data. This information is recognized by many senior Canadian university administrators as becoming increasingly important when universities make their requests to governments for operating funds and for the financing of more buildings and/or renovations. In line with these concerns, IRP has undertaken a review of its enrolment projection problems with the aim of providing accurate projections during a very unstable period.

## 3. Single Studies

Single IRP studies either recently completed or nearing completion include a survey of students' opinions about their housing, a survey of characteristics of full-

time undergraduates, preparation of historical distributions of grades for courses offered by various departments, an evaluation of the Freshman Orientation Seminars, a compilation of academic information about female and male students, a survey of alumni, and an examination of the relationship between the numbers of students who registered in advance and appeared in classes.

*The Survey of University of Alberta Students' Opinions on Housing* was conducted by IRP (principal researcher Gordon Fester) for the Associate Vice-President (Finance and Administration) in conjunction with a consulting firm hired to investigate the entire matter of student housing under the guidance of an Advisory Committee. This study was initiated largely because of several difficulties associated with the Lister Hall complex. Questionnaires were sent to about 6,000 students in March 1979. Of these, half lived in one of the six types of University residence (Lister Hall, Michener Park, HUB, Faculté Saint-Jean, Pembina Hall, and the North Garneau Housing Community) and half in off-campus accommodation. A total of 3,159 questionnaires (3,107 usable) were returned, the data from which were provided to the consultants. IRP has also analysed the returns and will soon be providing reports to the Associate Vice-President, *Folio*, and *Gateway*.

Another mail survey nearing completion is directed at obtaining a substantial amount of descriptive information concerning full-time students. *This survey of Characteristics of Full-time University of Alberta Undergraduate Students* (principal researcher Phil Davidson) was initiated partly at the urging of Cheryl Hume, former President of the Students' Union, who was especially concerned about how students finance their education. A pilot study was undertaken in the 1978-79 academic year after

consultation with a 10-member Advisory Committee. Following review of the pilot results and further consultation, questionnaires seeking information about such matters as personal finances, family background, accommodation and transportation were sent to 1,800 full-time undergraduate students. As of 10 December 1979, 1,260 usable replies had been received. The final report, which should be available about May 1980, will be widely distributed. Plans are underway to extend the study to include part-time and graduate students, and to update selected aspects of the data on a yearly basis.

## 4. Minor Requests

IRP has also received a number of requests to conduct minor studies. One of these involved comparing the projected enrolments for the First Term of the 1979-80 Winter Session with the actual enrolments for each Faculty, and calculating percentage increases or decreases. The IRP Salary Prediction Model has been modified to incorporate several new conditions which reflect possible changes. In addition, IRP receives daily requests for information about many aspects of the University's operations. □

people

Gerald Lock, Dean of Interdisciplinary Studies, has been appointed to the Manpower Advisory Council by the Minister of Advanced Education and Manpower, Jim Horsman.

## Alma Mater Funds Available

The University's Alma Mater Fund now has money available to assist groups on campus engaged in worthwhile projects. The Fund is the vehicle through which our alumni make annual contributions to the University. These gifts are made with the understanding that they are to be used to assist projects which can give an added dimension to University activities.

In order to be eligible for support from the Alma Mater Fund, a project should have a strong student and student-community orientation, and not be of a type normally funded from general University operating or research funds. The Alma Mater Fund is not intended to

finance salary expenses, and proposed projects should not be designed to advance the academic careers of individual students.

Grants will not be made for the support of existing publications, and they are normally made to a project only once. Organizers of continuing projects should not expect annual support from the Fund.

Application forms are available from the Office of Community Relations, 423 Athabasca Hall, and must be submitted by 15 February 1980. For further information, please contact Theresa Papirnik, Secretary to the Alma Mater Fund Allocations Committee, telephone 432-2325. □

## 1979 Award Recipient to give lecture

The Faculty of Education Lecture Series Award recipient for 1979, L.D. Nelson, is to deliver two public lectures later this month on learning difficulties in elementary school mathematics and problem-solving behavior in young children.

The Faculty of Education Lecture Series Award was introduced to promote and publicize educational research within the Faculty. The yearly award is limited to members of the University's Faculty of Education and identifies and rewards people who have gained a wide reputation for their research and who have consistently broadcast the results of their research through publications and oral presentations. An additional criterion for the selection of a suitable recipient is that he identify a worthwhile research project that can be advanced and reported as a result of receiving the award. The award carries with it a six-month leave of absence.

Dr. Nelson has been a member of the Faculty of Education since 1959, having come to this University after employment as a school teacher, principal, and superintendent in Alberta. Author of a large number of published papers and co-author of a series of mathematics textbooks, Dr. Nelson is widely respected for his research in mathematics education and particularly for his work on the problem-solving strategies of young children. The public presentations to be made at the end of January are concerned with these very aspects of Dr. Nelson's research.

Both lectures will be delivered in 2-115 Education North. The first, "Diagnosing Learning Difficulties in Elementary School Mathematics," will be given at 7:30 p.m. on 29 January, and the second, "Studying Problem-Solving Behavior in Young Children," will be delivered on 31 January at 3:30 p.m. □

## coming events

*Listings must reach the Editor by 9 a.m. on the Thursday prior to publication. Written notification is necessary. Listings should be sent to 423 Athabasca Hall.*

### Theatre

*Northern Light Theatre*  
CKXM (100.3 FM)

*Until 13 January.* "Side By Side By Sondheim."

*The Citadel Theatre*

*The Rice Theatre*

*Until 14 January.* "Christmas In the Market Place."

*Théâtre Français d'Edmonton*

*18 January. 8 p.m.* "Des Pommes Pour Eve." Auditorium of Faculté Saint-Jean.

### Intercollegiate Sports

*Men's Basketball*

*11 and 12 January.* University of British Columbia.

*Women's Basketball*

*11 and 12 January.* University of British Columbia.

### Music

*Department of Music*

*10 January. 8 p.m.* "Art Songs of Canada." A recital by Alfred Strombergs. Convocation Hall.

*11 January. 8 p.m.* William Christensen on piano. Convocation Hall.

*13 January. 3 p.m.* Alexandra Munn and Friends in recital. Convocation Hall.

*13 January. 8 p.m.* George Willms and Janet Scott in recital. Convocation Hall.

*14 January. 5 p.m.* William Jenken on clarinet. Convocation Hall.

*14 January. 8 p.m.* *Explorations VIII Series*—"An Evening of Mozart." Convocation Hall.

*16 January. 8 p.m.* Delbert Disselhorst on organ. Convocation Hall.

*17 January. 8 p.m.* "Art Songs of Canada." Lecture and recital by Alfred Strombergs. Convocation Hall.

*South Side Folk Club*

*12 January. 8 p.m.* The South Side Folk Club Concert, featuring Su Chong Lim from Calgary with Chris McLeod. The Orange Hall, 104 Street and 84 Avenue. Tickets at Keen Kraft Music, 10204 107 Avenue. For information phone 475-1042, 475-2260.

*Waldens*

*The Shadows*

*Continuing.* Bayley-Creaghan Duo.

*Edmonton Symphony*

*11 and 12 January. 8:30 p.m.* Violinist James Keene with guest conductor Yuval Zaliouk.

*The Edmonton*

*Recorder Society*

*18 January. 8 p.m.* Meeting to be held at the Southwest Cultural Centre, 115 Street and 74 Avenue.

*Edmonton Public Library*

*18 January. 8:30 p.m.* "String-band" in concert in the Centennial Library Theatre. Tickets \$6 for adults and \$4 for students.

*Royal Canadian College of Organists*

*20 January. 8 p.m.* Clay Christiansen will perform in St. Joseph's Cathedral, 10044 113 Street. Tickets available at the door.

*Classical Guitar Concert*

*21 January. 8 p.m.* Manuel Barrueco will perform in the

Provincial Museum Auditorium. Tickets \$6 and \$5. Available at the HUB box office and at the door.

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## Films

### *SUB Theatre*

10 January. 7 and 9:30 p.m. "Shall We Dance," with Fred Astaire and Ginger Rogers.

11 January. *Midnight*. "Easy Rider," with Peter Fonda and Dennis Hopper.

12 January. 7 and 9:30 p.m. "Chinatown," with Jack Nicholson and Faye Dunaway.

15 January. 7 and 9:30 p.m. "The Magnificent Seven," with Yul Brynner and Steve McQueen.

16 January. 7 and 9:30 p.m. "Day of the Locust," with Karen Black and Donald Sutherland.

17 January. 7 and 9:30 p.m. "Gigi," with Leslie Caron and Louis Jourdan.

### *The National Film Theatre*

10 January. 7:30 and 9:30 p.m. "The Adventures of Barry McKenzie."

11 January. 7:30 and 9 p.m. "Alvin Purple."

16 January. 7:30 p.m. "Paissa." 9 p.m. "Stromboli." Showing in the Citadel's Zeidler Hall.

### *Princess Theatre*

10 January. 7 p.m. Neil Young's "Journey Through the Past." 9:30 p.m. "Jazz on a Summer's Day."

11 January. 7 p.m. "Slaughterhouse Five."

9 p.m. "Journey Through the Past."

12 January. 7 p.m. "The Super Vixens."

9:30 p.m. "Slaughterhouse Five."

13 January. 9:30 p.m. "Freaks."

14 January. 7 p.m. "Butley."

9:30 p.m. "Freaks."

15 January. 7 p.m. "High Anxiety."

9:30 p.m. "Butley."

16 January. 7 p.m. "Newsfront."

9:30 p.m. "High Anxiety."

17 January. 7 p.m. "Newsfront." 9:30 p.m. "Small Change."

### *Edmonton Public Library*

#### *Children's Cinema*

12 January. 10:30 a.m. "Smallest Elephant in the World," "Lend A Paw," "Hardware Wars," and "Cricket in Times Square." Centennial Library Theatre. Free admission.

12 and 13 January. 2 p.m. "Help," starring The Beatles. Centennial Library Theatre. Free admission.

### *Edmonton Film Society*

14 January. 8 p.m. "The Chess Players." SUB Theatre. Admission by series ticket.

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## Exhibitions

### *University Art Gallery and Museum*

*Continuing*. "Paper Tigers." An exhibition of works of art on paper by seven young artists from western Canada.

*Continuing*. "One Man's Mountains." Photographs by Joe Weiss.

### *SUB Art Gallery*

*Continuing*. "Young Artists of the Prairies." Paintings, prints, and drawings by ten young prairie artists.

### *Edmonton Art Gallery*

*Continuing*. "Pictures of a Floating World."

### *Edmonton Public Library*

*Continuing*. "Carl Gustav Jung Exhibitions." Foyer Gallery of Centennial Library.

### *Alberta Culture*

*Continuing*. "Rails of the World." Watercolors by J. Fenwick Lansdowne. Displaying in Provincial Museum.

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## Lectures and Seminars

### *Images Alberta Camera Club*

10 January. 7:30 p.m. F. Patterson will speak about "A Sense of Space." 2nd floor Orange Room

of King Edward School, 8525 101 Street.

### *Department of English*

10 January. 4 p.m. G. Kelly will speak on "Situation, Revelation, Transformation: A History of the Story-Forms of Eighteenth-Century Fictions." 5-20 Humanities Centre.

### *Department of Slavic Languages*

10 January. 4 p.m. K. Dabrowski will talk about "Selected Problems of Creativity with Particular Reference to Mental Disturbance." 226 Fine Arts Building.

### *Department of Classics*

10 January. 4 p.m. L. Eckert will speak about "The Date and Place of Jesus' Birth." 1-8 Humanities Centre.

### *Department of Entomology*

10 January. 4:30 p.m. E. Maw will speak on "Factors Influencing the Effects of Phytophagous Insects on Host Populations—Implications for the Use of *Aphthona* spp. as Spurge Control Agents." 62 Athabasca Hall Annex.

### *Edmonton Public Library*

14 January to 17 March. "Adult Basic Education Upgrading." Jasper Place Library. Telephone 427-0404 for information.

### *Woodcroft Writer's Series*

14 January. 7:30 p.m. M. Mandel and T. Blodgett will be featured. Session will be held in the Woodcroft Library.

### *Personal Financial Management Seminars*

10, 17, 24, and 31 January. 2 and 7:30 p.m. Sessions will be held in the Centennial Library Music Rooms.

### *Boreal Institute for Northern Studies*

15 January. 8 p.m. D.W. Spady will talk about "The Northwest Territories Perinatal and Infant Mortality: Mortality and Morbidity Study." 410 Biological Sciences Building.

### *Canadian Institute of Ukrainian Studies*

15 January. 12:30 p.m. K. Adamowicz will talk about "Ukrainian Education in Interwar Poland." 352C Athabasca Hall.

### *Division of East European Studies*

15 January. 3:30 p.m. J. Himka will speak about "Young Radicals and the Idea of Ukrainian Statehood." 311 Athabasca Hall.

### *Faculty of Extension Department of Sociology Edmonton Public Library*

15 January. 12 noon. C. Caldarella will talk about "Christianity: The Japanese Way." Centennial Library Music Room.

### *Department of Physics*

15 January. 3:30 p.m. R.E. Taylor of Stanford University in California will talk about "Parity Violation in Inelastic Electron Scattering." V128 Physics Building.

### *Paul Kane House*

16 January. 12 noon. A speaker from the Rape Crisis Centre will talk about rape. 10220 121 Street.

### *Department of Botany*

16 January. 3:30 p.m. J. Owens will be guest speaker.

### *Faculty of Arts*

16 January. 8 p.m. R. Busch will talk about "Destalinization and Alexander Solzhenitsyn's *Cancer Ward*." L-1 Humanities Centre.

### *Department of English*

17 January. 4 p.m. G. Wickens will talk about "Hardy's Natural Theology and the Mythic Structure of *Far From the Madding Crowd*." 5-20 Humanities Centre.

### *Department of Art and Design*

18 January. 2:30 p.m. P. Darrah will speak on "Painting." 2-20 Fine Arts Building.

### *Department of Anaesthesia*

19 January. 9 to 12 noon. Neuro-



muscular Symposium with R. Smith, G. Monckton, and B. Britt. 2-115 Clinical Sciences Building.

## Radio

*9 January. 7:30 p.m. Extensions.* This week, Extensions gives us a preview of the winter Extension program.

CKUA (580 AM/95 FM)

*11 January. 7 p.m. Legal Maze: Law and the Legal System in the 1980s.* This week, Legal Maze takes a brief glimpse into the future of Law and the Legal System in the coming decade. Guests include D. Dunlop, D. Bai, and R. Goreham.

CKUA (580 AM/95 FM)

*12 January. 7 p.m. University Concert Hall: Musicology.* A program from the Far East.

CKUA (580 AM/95 FM)

*13 January. 8 p.m. Idealog: Space Colonies.* Why, where, and how will we put colonies into space. Guests include D. Hube (Department of Physics), P. Deans, R. Gilles, J. Mullock, and T. Morisson.

CKXM (100.3 FM)

*16 January. 8 p.m. Dimensions: This Century.* This week "Dimensions" presents the eighth program in a 10 part series on This Century.

CKXM (100.3 FM)

service  
information

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## Notices

### Curling

The NASA Mixed Bonspiel will be held 2 and 3 February. For information telephone 432-4578 or 432-4140.

### Selection Committee for a Dean of the Faculty of Nursing

The GFC Nominating Committee is seeking nominations for a faculty member from a faculty other than the Faculty of Nursing to serve on the above Selection Committee. Would those who have nominations, or who are interested in serving on this Committee please contact the Secretary of the Nominating Committee, 2-1 University Hall, telephone 432-4715. It would be appreciated if a brief vita could accompany any nomination.

### Booster Service

Booster service will be provided to holders of University parking permits who encounter battery trouble while parking on campus. This service will be available from 3 p.m. to 6 p.m. weekdays when the temperature drops to -23 degrees Celsius (-10 degrees Fahrenheit) or colder. For service, telephone 432-4855.

### Noon-hour French

Want to brush up on your spoken French? Try the noon-hour conversation French class being offered by the Faculty of Extension. This course is meant for those who are reasonably familiar with the grammar and reasonably confident in simple conversation. It is designed primarily for the University community and will use a small-group format with a qualified instructor as a resource person. Each Tuesday and Friday from noon to 1 p.m., 29 January to 2 May 1980. Fee: \$45. For further information telephone 432-3033.

## Non-Credit Courses

### Faculty of Extension

The courses listed below are open to all members of the public and members of the University community.

### Energy Management in Large Buildings

Date: 15 January. Duration: 8 Tuesdays. Time: 7:30 to 9:30 p.m. Fee: \$165. Class limit: 30.

### Effective Speaking for Business and Professional People

Date: 14 January to 17 March. Time: 7 to 10 p.m. Fee: \$150. Telephone: 432-5066 or 432-5067.

### Latin for Beginners

Date: 12 February. Duration: 12 Tuesdays. Time: 7:30 to 9:30 p.m. Fee: \$50 (text not included). Class limit: 20. Telephone: 432-2015 or 432-3033.

### Aspects of Greek and Roman Civilization

Date: 13 February. Duration: 10 Wednesdays. Time: 7:30 to 9:30 p.m. Fee: \$40. Class limit: 25. Telephone: 432-2015 or 432-3033.

## Scholarships, Fellowships and Awards

Contact the Student Awards Office for information on the following.

### J.J. Stewart Reid

#### Memorial Fellowship

The Canadian Association of University Teachers is offering one graduate fellowship, valued at \$4,500 for one year, in any field of study.

### Bradfield Graduate Fellowships

Three graduate fellowships, valued at \$8,500 for one year, are available to students working in the natural and applied sciences, mathematics, economics, business, and commerce.

### Telelobe Canada

One graduate fellowship is available to a student involved in the area of international telecommunications. The fellowship is valued at \$5,000.

### Lever Brothers Limited Bilingual Exchange Fellowships

Two fellowships valued at \$7,000 over two years plus summer employment, are available to students working toward an MBA in Business Administration.

### Steel Company of Canada Fellowships

Four awards valued at \$5,000 for one year are available to students in metallurgy.

### National Institute on Mental Retardation

Awards up to \$6,000 are available to graduate students in disciplines related to mental retardation.

### The Royal Bank of Canada

\$50,000 and a gold medal will be awarded to an outstanding researcher involved in any of the natural and social sciences, the arts, humanities, business, and industrial worlds.

### Rutherford Scholarship

One scholarship valued at £2,250 per year for three years, is available to a graduate in the natural sciences. The scholarship is tenable in some part of the British Commonwealth other than that from which the student hails.

### Imperial Oil Graduate Research Fellowships

Six scholarships valued at \$15,000 over three years, are available to students in the pure and applied natural and exact sciences, the social sciences, and the humanities.

### The Department of National Defence

Two fellowships and five scholarships valued at \$15,000 and \$7,500, are available to PhD and graduate students in the political, economic, social, and military dimensions of national security.

Two fellowships of \$10,500 are available for post-doctoral study of history with relevance to the Canadian Armed Forces.

### Gulf Oil Canada Limited

Nine graduate fellowships valued at \$8,500 are available for study in business management, computer sciences, mathematics, geology, geophysics, engineering, physics, chemistry, ecologically-oriented studies, and sciences related to the petroleum industry.

### Emergency Planning Canada

One graduate fellowship of \$7,000 or more will be awarded for research on human behavior under stress.

### Robert and Mary Stanfield Foundation

Two \$3,500 scholarships are available to undergraduate students in Canadian Studies.

### Concordia University

Fellowships valued at up to \$7,000 are available for graduate studies in a wide range of disciplines.

### Canadian Transportation

#### Student Paper Competition

Prizes of \$100, \$150, and \$300 will be awarded for the best undergraduate term paper, the best thesis or research paper at the master's level, and the best doctoral thesis. The Jim Davey Prize will be awarded for the best overall entry. Papers submitted must be on transportation topics.

## Research Grants

### Granting Agencies:

#### Application Deadlines

This list of deadline dates for submissions to granting agencies for research funds, exchange programs, and travel grants is published every month in *Folio*. To allow sufficient time for processing, all applications should reach the Research Grants and Contracts Office at least ten days before the deadline date. Where other University resources are involved, the time requirement may be much longer than ten days and such applications should therefore be submitted well in advance. An extra copy of the application should be provided for the Research Grants and Contracts Office.

Further information may be obtained by consulting the *Calendar of Granting Agencies for Research Funds, Exchange Programs, and Travel Grants*, which is available in the offices of Deans, Directors of Institutes and Centres, and the Department Chairmen, or by telephoning the Research Grants and Contracts Office, 432-2002. Note: Although the *Calendar* is updated on a continuous basis, the following information is subject to change without notice. If staff members have advance information on forthcoming changes, the

Research Grants and Contracts Office would appreciate being advised.

Code: (R) Research Funds; (E) Exchange programs; (T) Travel grants.

Granting Agency	Deadline Date
American Philosophical Society	8 Feb.
(R) Calendar Source Number 25	11 Apr.
	8 Aug.
	10 Oct.
	12 Dec.
Canada Council—Grants for Visiting Foreign Artists	15 Feb.
(E) Calendar Source Number 60	
Department of Labour—University Research Program	15 Feb.
(R) Calendar Source Number 145	
Distilled Spirits Council of the United States, Inc.	1 Feb.
(R) Calendar Source Number 163	1 May
	1 Aug.
	1 Nov.
International Development Research Centre—Research Associate Award	28 Feb.
(R) Calendar Source Number 215	
Muscular Dystrophy Association of Canada	28 Feb.
(R) Calendar Source Number 260	
U.S. Department of Health, Education, and Welfare	Renewals
(R) Calendar Source Number 420	1 Feb.
	1 June
	1 Oct.
<i>New and Supplementals</i>	
	1 Mar.
	1 July
	1 Nov.

## Positions Vacant On-Campus

### Interviewers

The Population Research Laboratory of the Department of Sociology requires interviewers for a research project scheduled to take place in February and March. Employment is temporary, and will consist of evening and weekend work. A car is necessary. For information telephone 432-4659.

### Nursing Program Instructor

Applications are being accepted for the above position. The Nurse Practitioner Program is funded by the Federal Government and based at the University of Alberta. The major responsibility of the position is teaching history taking and physical assessment plus clinical supervision in pediatrics and emergency, monitoring of lectures, preparation and marking of assignments and exams.

Essential requirements: graduate of a Nurse Practitioner Program; nursing station experience; a BSc(N) degree preferred; and experience in Pediatrics and Emergency.

This appointment will commence as soon as possible. Salary negotiable. Send curriculum vitae to: Nursing Director, Nurse Practitioner Program, 3-103 Clinical Sciences Building

University of Alberta  
Edmonton, Alberta.

### Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 4 January, 1980.

Duplicating Operator I (\$764.41-\$883.20)—Law  
Clerk Typist II (\$764.41-\$912.91)—Surgical-Medical Research Institute; Rehabilitation Medicine; Housing and Food Services; Zoology; Provincial Laboratory  
Clerk Steno II (\$793.02-\$949.20)—Secondary Education; Entomology  
Dental Assistant I (part-time) (\$475.80-\$569.52)—Dental Clinical Sciences  
Dental Records Clerk (Term) (\$822.72-\$984.39)—Dentistry  
Senior Clerk (\$822.72-\$984.39)—Campus Security; Dean of Engineering  
Clerk Typist III (part-time, trust, term) (\$5.00/hour)—Student Affairs  
Clerk Typist III (\$849.11-\$1,021.79)—Administrative Services (2 positions); Purchasing/Buying  
Data Entry Operator I (\$849.11-\$1,021.79)—Computing Services  
Data Entry Operator I/II (\$849.11-\$1,109.78)—Computing Services  
Clerk Steno III (\$883.20-\$1,065.78)—Botany (Term); Geology; Economics; English; Philosophy; Secretariat; Education; Psychology; Mineral Engineering; Provincial Laboratory; University Occupational Health, Safety and Fire  
Clerk Steno III/Secretary (\$883.20-\$1,205.47)—Continuing Medical Education  
Programmable Typewriter Operator II (\$883.20-\$1,065.78)—Civil Engineering  
Admission Records Trainee/Coordinator (\$883.20-\$1,109.78)—Office of the Registrar (2 positions)  
Accounts Clerk (\$912.91-\$1,109.78)—Office of the Comptroller  
Medical Steno (\$949.20-\$1,158.17)—Medicine (3 positions); Pediatrics; Psychiatry  
Secretary (\$984.39-\$1,205.47)—Secretariat; Business Administration and Commerce; Dentistry—Oral Biology (2 positions); Campus Development  
Administrative Clerk (\$984.39-\$1,205.47)—Housing and Food Services; Extension  
Department Secretary (trust, term) (\$912.91-\$1,109.78)—Physics  
Laboratory Assistant III (\$883.20-\$1,065.78)—Provincial Laboratory  
Technician I (part-time, trust) (\$492.40-\$604.74)—Pharmacy and Pharmaceutical Sciences  
Audio Visual Technician I (\$984.39-\$1,205.47)—Education Curriculum Laboratory  
Vehicle Pool Partsman (\$1,065.78-\$1,311.06)—Physical Plant  
Audio and Video Technician I/II (\$1,065.78-\$1,489.25)—Radio and

Television; Audiovisual Media Centre  
Publications Assistant II (\$1,109.78-\$1,367.16)—Computing Services  
Security Officer I (\$1,109.78-\$1,367.16)—Campus Security  
Technologist I (\$1,109.78-\$1,367.16)—Surgery; Physics; Zoology (trust, term)  
Chemical Technologist I (\$1,109.78-\$1,367.16)—Home Economics  
Technician II (\$1,109.78-\$1,367.16)—Oral Biology  
Electronics Technician II (\$1,205.47-\$1,489.25)—Electrical Engineering  
Electronics Technician II/III (\$1,205.47-\$1,697.12)—Physics  
Accounting Assistant (Audit) (\$1,257-\$1,556.33)—Internal Audit  
Typographical Tradesman III (\$1,311.06-\$1,623.42)—Printing Services  
Programmer/Analyst II (Trust) (\$1,367.16-\$1,697.12)—R.S. McLaughlin Examinations and Research Centre  
Programmer/Analyst II/III (\$1,367.16-\$2,021.59)—Administrative Systems; Physics  
Technician IV (\$1,427.65-\$1,771.92)—Mineral Engineering; Plant Science  
Biology Technologist III/IV (\$1,427.65-\$2,021.59)—Genetics  
Machinist Technician III (\$1,489.25-\$1,850.00)—Technical Services  
Electronics Technician IV (\$1,556.33-\$1,934.69)—Language Laboratories  
Programmer/Analyst III (\$1,623.42-\$2,021.59)—Administrative Systems; Chemical Engineering  
Programmer/Analyst IV (\$2,115.07-\$2,649.62)—Computing Services

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in the Cameron Library—Room 512 should be consulted for further information as to availability and position requirements.

Library Clerk II (\$764.41-\$912.91)—Circulation  
Library Clerk III (\$822.72-\$984.39)—Cataloguing  
Library Assistant I (\$883.20-\$1,065.78)—Bibliographic Verification

### Off-Campus

#### Secretary

Secretary I. Department of Radiation Oncology, Provincial Cancer Hospitals Board.  
\$12,060-\$12,972.  
Duties to include typing of medical reports; arranging appointments for special tests; scientific papers; follow-up of various reports for medical charts; routine mail; filing; telephone contact with doctors and patients; general secretarial duties. A mature individual with experience of at least one year in a medical field and proficiency in medical terminology.

#### Daycare Observers

Observers for daycare research needed, 4-6 hours a week for six weeks. Good wages. Call 432-5428 or 432-4273. Leave name and phone number.

## Advertisements

must reach the Editor by 3 p.m. on the Thursday prior to publication, which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 20 cents per word for the first week and 10 cents per word for subsequent weeks ordered before the next deadline. Advertisements must be paid for in advance, and are accepted at the discretion of the Editor. We regret that no advertisements can be taken over the telephone. For order forms or further information, telephone 432-2325.

### Accommodations available

For sale—Searching for old-fashioned comfort? If so, you will appreciate this solid old two-storey home. Completely renovated to incorporate the modern conveniences while retaining the beauty and workmanship of the original. Features include a large porch, eight-foot bay window, quarter cut oak fireplace, and a fine oak banister and staircase. Mature trees, on a quiet street. Excellent financing available. Priced under \$100,000. Please call Earl Scoville, 436-5080 res., 436-4488. A.E. LePage Melton Real Estate Ltd.  
For rent—Two bedroom home. Immediate occupancy. Fully furnished. Available to 26 April 1980. One or two responsible persons. Reasonable rent, near westend, 10 minutes to University. Phone 432-5026.

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For sale—By owner. Petrolia. Three bedroom bungalow. Fireplace, developed basement, mature landscaping, double garage. Two appliances and drapes. \$89,000. Phone 435-3150 after 6 p.m.  
For sale—Charming, three bedroom bungalow. Belgravia. Fireplace. Developed basement. Large first mortgage, low rate. Must be sold. \$79,900. 433-7207.

For rent or sale—Three bedroom Blue Quill condominium. Two bathrooms, four appliances, carpet throughout, twenty minutes to university, partially furnished. Available 10 February. \$489 monthly. Randy 432-5285 day, 437-2807 night.  
For sale—Make your move onto this large lot situated in newly developed Yellow Bird. Choose between a 2,200 sq. ft. custom built home or have your own blueprints constructed. Call Barry McGugan 465-0574 or 433-0125 Guaranty Trust Realty.  
For rent—1 February. Three bedroom bungalow. Quiet crescent in Meadowlark, 20 minutes from University. Heated double garage. \$500 monthly. References. 436-5941 after 5 p.m.  
For sale—Five bedroom semi-bungalow near University. Hardwood floors,

big trees, excellent financing arranged. 433-7207.

For sale—Garneau. 10921 81 Avenue. 1,350 sq. ft., semi-bungalow. Two large bedrooms upstairs. Spacious living and dining rooms. Beautiful garden with mature trees. Assumable \$65,000 mortgage at 11%. Asking \$88,000. 439-2948.

#### *Accommodations wanted*

Needed immediately, two bedroom apartment/townhouse for visiting professor in library science. Prefer close to campus. Furnished or unfurnished. Teenage child, one pet. Phone 432-4578 or 433-5962.

#### *Automobiles and others*

Wanted older Datsun 510 or other Japanese car, working or not. 477-2908.

#### *Goods for sale*

High quality electronic piano, \$1,200. Full 88 notes. Dean 432-3796, 436-1879. Wanted old color portable TVs. Call 477-2908.

#### *Services*

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Experienced piano teacher, all levels. Phone 489-8059.

Yoga for better health: Keep-fit yoga group offers classes Wednesday evenings at University. Twelve weeks, starts 23 January. Fee \$30. Full-time University students \$20. Registration 16 January, 6:30-8 p.m., room 9, floor 14, Tory Building. Enquiries to Box 184, University Post Office.

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Peking and Shanghai food. Cooked by chef of old "Shanghai House." Shanghai Garden Restaurant, 10120 118 Avenue. Roasted Peking duck (order in advance), hot firepot, dumplings, fried Chinese hamburger, beef buns, cayenne and meat noodles, sour and hot meat broth soup. Closed Tuesdays. 11:30 a.m.-11:30 p.m. 474-2516.

#### *Classical Guitarist*

### Manuel Barrueco

Monday, 21 January  
8:00 p.m.

Provincial Museum  
Auditorium

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## The Senate

The University of Alberta

### Nominations for Honorary Degrees

The Senate invites members of the public to nominate candidates for Honorary Degrees.

The University of Alberta awards Honorary Degrees to individuals who have made outstanding contributions during their lives. The University Senate is responsible for choosing four or five recipients each year.

Nominees may be of local, national or international reputation and need not be of Canadian citizenship.

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